**Biography**

Professor Dr. Bouvry obtained his Ph.D. degree ('94) in Computer Science with great distinction at the University of Grenoble (INPG), France. His research at the IMAG laboratory focussed on Mapping and scheduling task graphs onto Distributed Memory Parallel Computers. Next, he performed post-doctoral researches on coordination languages and multi-agent evolutionary computing at CWI in Amsterdam.

Dr Bouvry gained industrial experience as manager of the technology consultant team for FICS (belonging to S1 corp) a world leader in electronic financial services. Next, he worked as CEO and CTO of SDC, a Saigon-based joint venture between SPT (the second telecom operator in Vietnam), Spacebel SA (a Belgian leader in Space, GIS and Healthcare), and IOIT, a public research and training center. After that, Dr Bouvry moved to Montreal as VP Production of Lat45 and Development Director for MetaSolv Software, a world-leader in Operation Support Systems for the telecom industry (e.g. AT&T, Worldcom, Bell Canada, etc).

Dr. Bouvry is currently professor at the University of Luxembourg, special advisor to the University President in charge regarding High Performance Computing, heading the PCOG (Parallel Computing and Optimization Group), directing the doctoral programme DP-CSCE, and directing the certificate SmartICT for Business innovation. Pascal Bouvry is also Faculty of the Interdisciplinary Center of Security, Reliability and active in various scientific committees and technical workgroups (IEEE CIS Cloud Computing vice-chair, IEEE TCSC GreenIT steering committee, ERCIM WG, ANR, COST TIST, etc.).

Pascal Bouvry is also member of the editorial boards of IEEE Transactions on Sustainable Computing, IEEE Cloud Computing Magazine, Springer journal on Communications and Sustainable Computing, and Elsevier journal in Swarm and Evolutionary Computation.

**HPCaaS**

The last decade saw a large amount of new challenges in matters of computations with the convergence of cloud computing, big data, and Internet of Things.

The classical business of HPC centers changed in order to deal with data-intensive applications and started to be impacted by IoT-related communication-intensive demands. Additionally it is key to realized that for the last decades HPC used to be reserved to a few lucky large corporates and academics, but the new incoming demand is such that HPC services shall now become accessible to SMEs.

This unavoidable trend blurs the border between cloud and HPC leading to a new era HPC-as-a-service.

In order to meet these challenges new approaches, middleware, decision-making tools should be defined. The presentation will highlight different stages of the development of University of Luxembourg HPC site towards a nation-wide solution aimed at playing a leading role in a European environment.